

Title (en)

COPRODUCTION OF PROPANEDIAMINE AND ALKYLATED AMINOPROPYLAMINES

Publication

EP 0391349 A3 19910522 (EN)

Application

EP 90106369 A 19900403

Priority

US 33484889 A 19890407

Abstract (en)

[origin: EP0391349A2] This invention relates to a process for the coproduction of propanediamines and alkylated aminopropanediamines. The process contemplates an initial cyanoethylation of ammonia under conditions for producing aminopropionitrile and modest levels of iminobispropionitrile. After separation of the iminobispropionitrile from the aminopropionitrile, the process involves the catalytic reductive alkylation of the iminobispropionitrile by reaction with an aldehyde in the presence of hydrogen to form the alkylated iminobispropionitrile followed by the catalytic hydrogenation of the nitrile group in aminopropionitrile and iminobispropionitrile to the amine.

IPC 1-7

C07C 209/48

IPC 8 full level

B01J 23/44 (2006.01); **B01J 25/02** (2006.01); **C07B 61/00** (2006.01); **C07C 209/48** (2006.01); **C07C 211/11** (2006.01); **C07C 211/14** (2006.01); **C07C 255/24** (2006.01)

CPC (source: EP US)

C07C 209/48 (2013.01 - EP US); **C07C 255/24** (2013.01 - EP US)

Citation (search report)

- [AD] US 2349461 A 19440523 - CLIVE PRATT HENRY REGINALD, et al
- [AD] US 3427356 A 19690211 - BAER KARL, et al
- [A] EP 0212986 A1 19870304 - GRACE W R & CO [US]
- [A] DE 2004405 A1 19710805
- [A] DE 3248326 A1 19840628 - BASF AG [DE]

Cited by

EP0921164A1; CN105884649A; EP0916392A1

Designated contracting state (EPC)

BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0391349 A2 19901010; EP 0391349 A3 19910522; EP 0391349 B1 19940622; CA 2013628 A1 19901007; DE 69010049 D1 19940728; DE 69010049 T2 19941013; JP H02290833 A 19901130; JP H0655696 B2 19940727; US 4967006 A 19901030

DOCDB simple family (application)

EP 90106369 A 19900403; CA 2013628 A 19900402; DE 69010049 T 19900403; JP 9052490 A 19900406; US 33484889 A 19890407